

EMERGENCY ACTION PLAN

For

(NAME OF DAM)

Owned by:

(Owner)

ISSUE DATE: _____.
REVISED DATE: _____.

Introduction

- 1) **Purpose.** The purpose of the Emergency Action Plan (EAP) is to safeguard lives and secondarily to reduce property damage in the event that *(your dam)* would fail. To carry out this mission, the EAP contains: 1) procedures to monitor *(your dam)* periodically and during flood warnings issued by the National Weather Service; 2) notify *(your County)* Emergency Operation Center of a potential dam failure; and 3) warn and evacuate the isolated residences at risk. These procedures are to supplement and be used in conjunction with *(your County's Emergency Operation Plan)*.
- 2) **Flood Description.** Failure of the dam could cause significant damage to *(all roads and isolated residences downstream of your dam within the danger reach)* located ____ miles downstream of *(your dam)*.

OPERATING PROCEDURE

- I. The dam will be inspected periodically each year for maintenance and distress signals.
- II. The dam observer will inspect the dam when the National Weather Service issues a Flood Warning for the area and complete the following tasks.
 1. The dam observer will note & record water levels in reservoir and the rate at which the pool is rising.
 2. If the dam shows signs of internal piping (muddy seepage exiting the downstream embankment), erosion, slope failures, blocked spillways, or other ominous distress signs, the dam observer will call the County Emergency Operation Center to send out police to roadblock downstream roads and warn any isolated residences in the danger reach. The dam observer may contact the Md Dam Safety Division or his designated engineer to provide assistance.
 3. If the pool level rises too within one foot (**check with Md Dam Safety for an acceptable pool level**) of the dam crest, the dam observer will contact the County Emergency Operations Center to dispatch police to roadblock downstream roads and warn any isolated residences in the danger reach.
 4. Inspection of the dam may terminate when the pool level drops three feet below the dam crest (**check with Md Dam Safety for an acceptable pool level**) and additional rainfall is not forecasted.
 5. This emergency action plan is to be reviewed each year to assure the phone numbers, contact persons, and the evacuees have not changed.

DAM NAME

Signatures of Persons Involved in Emergency Action Plan

Dam Owner

By _____ Date _____

Typed Name:

Title:

Phone: (day) _____
(night) _____

**County Department of
Emergency Operations**

By _____ Date _____

Typed Name:

Title:

Phone: (day) _____
(night) _____

**Local or State Police
Barracks "?"**

By _____ Date _____

Typed Name: _____

Title

Phone: (day) _____
(night) _____

**MD Department of the Environment
Dam Safety Division**

By _____ Date _____

Typed Name: Brad Iarossi

Title: Chief

Phone: 410-631-3538

Owner's Engineer

By _____ Date _____

Typed Name:

Title: _____ PE#

Phone: (day) _____
(night) _____

PREVENTATIVE ACTIONS

If time allows, contact (**your engineer**) and the Maryland Dam Safety Division for advice on preventative actions. Listed below are potential emergency actions, which may prevent or delay the failure of the dam. They should be considered based on site-specific conditions, as well as the risk of failure and risk to employees.

Possible Actions To Be Taken In The Event Of:

Imminent Overtopping by Flood Waters:

- 1) Open drain or flood gates to maximum capacity.
- 2) Place sand bags along the dam crest to increase freeboard.
- 3) Place riprap or sandbags in damaged areas of dam.
- 4) Provide erosion protection on downstream slope by placing riprap or other appropriate materials.
- 5) Divert flood waters around dam if possible (such as emergency spillway)

Erosion of Dam by Seepage Through the Embankment, Foundation, or Abutments:

- 1) Plug the seepage with appropriate material such as (riprap, hay bales, bentonite, sandbags, soil, or plastic sheeting if the leak is on upstream face of dam).
- 2) Lower the reservoir level until the flow decreases to a non-erosive velocity or stops leaking.
- 3) Place a sand and gravel filter over the seepage exit area to minimize loss of embankment soils.
- 4) Continue lowering the reservoir level until the seepage stops or is controlled. Refill reservoir to normal levels only after seepage is repaired.

Slide or Slope Failure on Upstream or Downstream Slope of Embankment:

- 1) Lower the reservoir water level at a rate, and to an elevation that is considered safe. Contact your engineer or the Dam Safety Division to determine a safe level. If the spillway outfall is damaged or blocked, pumping, siphoning, or a controlled breach may be required.
- 2) Restore lost freeboard by placing sandbags or filling in the top of the slide.
- 3) Stabilize slide by weighting the toe area with additional soil, rock, or gravel.

Failure of Spillway Structure or Outlet:

- 1) Lower the water level to a safe elevation. If the reservoir drain is inoperable, pumping, siphoning, or excavating an emergency spillway or controlled breach may be required.
- 2) Implement temporary measures to protect the damaged structure.
- 3) If necessary, employ experienced, professional divers, to assess the problem and possibly implement repair.

SUPPLIES AND RESOURCES

In an emergency situation, equipment and supplies may be needed on short notice. The following supplies and resources may be needed during an emergency: earthmoving equipment, sand and gravel, sandbags, riprap, pumps, pipe, laborers.

List of Contractors

It will be the responsibility of the owner to maintain the list of contractors that may be contacted during an emergency condition for equipments, materials, and repairs.

For each contractor on the list, the following information is needed:

- Contractor name
- Contact person.
- Address.
- Phone number.
- Equipment & repair supplies available.
- Arrival time to dam

1. Contractor: _____ Contact person: _____
_Phone No: _____ Address: _____
Services _____ contracted _____ for:

2. Contractor: _____ Contact person: _____
_Phone No: _____ Address: _____
Services contracted for: _____

3. Contractor: _____ Contact person: _____
_. Phone No: _____ Address: _____
_. Services contracted for: _____

4. Contractor: _____ Contact person: _____
_. Phone No: _____ Address: _____
_. Services contracted for: _____

This page will contain the
Danger Reach or Flood
Inundation Map.